

FIRE ALARM THERMOSTAT PVA 24

APPLICATION:

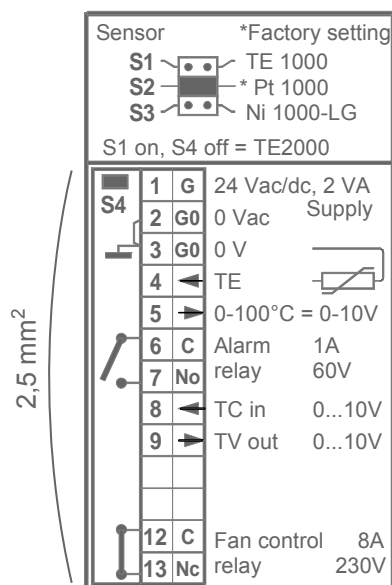
PVA 24 is a safety device for the air handling unit (AHU) protecting it against overheating. Plug connectors and installation on the 35 mm DIN-rail make service and commissioning easy. The sensor of Pt1000, Ni1000-LG or PTC1000/2000 Ω may be selected at the commissioning by coding jumpers S1...S3 on the PCB behind the front plate.

FUNCTION:

PVA 24 is monitoring and, if necessary, controlling temperature. The sensor in the duct is detecting temperature and PVA 24 is transmitting the signal to the control system. When temperature is approaching alarm set point within the range of restriction (=set point - 3 °C), the guard starts adjusting the signal of the control system to the actuator (green light). When temperature is growing higher than alarm set point PVA 24 is stopping the AHU and triggering alarm (red light). Alarm is reset by the Reset-button or by breaking the supply voltage.

ATTENTION! Faulty sensor is triggering alarm and PVA 24 is closing the actuator (control valve) completely. The break of supply voltage of PVA 24 is stopping the air handling unit and triggering alarm.

WIRING:



IMPORTANT: The device must be installed inside a suitable housing that cannot be opened without using tools



Technical data:

Supply	24 Vac/dc, 2 VA
Terminals	2.5 mm ²
Control relay, NC contact	8 A / 230 Vac
Alarm relay, NO contact	1 A / 60 V
Sensor type	selectable, factory setting Pt1000
Alarm setting	+40...+70 °C
Start point of adjusting (fixed)	3 °C < alarm set point
P-band (fixed)	2 °C
Air temperature output	0...100 °C = 0...10 V
Master controller signal (TC in)	0...10 Vdc
Actuator signal (TV out)	0...10 Vdc
Housing	IP 20
Dimensions (w x h x d)	53 x 90 x 59 mm

Ordering guide:

Model	Product number	Description
PVA 24	1110180	Fire alarm thermostat fixed P-band, sensor type selectable (Pt1000, Ni1000-LG or PTC 1000/2000,)
TEK Pt1000	1174040	Pt1000 sensor
TEK Ni1000-LG	1178040	Ni1000-LG sensor